·	Application No.	Applicant(s)
	10/602,710	SONG, JANG-KUN
Notice of Allowability	Examiner	Art Unit
·	James A. Dudek	2871
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the application filed 7/7/03.		
2. The allowed claim(s) is/are <u>1-12</u> .		
3. The drawings filed on <u>07 July 2003</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 		
Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8), 7. Examiner's	Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	-
: :		

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Per claim 1, the prior art of record teaches a liquid crystal display comprising: a first insulating substrate; first and second signal lines formed on the first insulating substrate; a third signal line formed on the first insulating substrate and crossing the first and the second signal lines; a first thin film transistor connected to the first and the third signal lines; a second thin film transistor connected to the second and the third signal lines; a first pixel electrode connected to the first thin film transistor; a second pixel electrode connected to the second thin film transistor; a second insulating substrate facing the first insulating substrate; a common electrode formed on the second insulating substrate; a liquid crystal layer interposed between the first and the second insulating substrates and including a first liquid crystal region on the first pixel electrode and a second liquid crystal region on the second pixel electrode. The prior art of record does not teach nor suggest, in combination with the limitations supra, a domain partitioning member formed on at least one of the first and the second insulating substrates for partitioning the first and the second liquid crystal regions into a plurality of domains, respectively, wherein the domains of each of the first and the second liquid crystal regions includes a first directional domain and a second directional domain, the average directors of liquid crystal molecules in the first and the second directional domains are angled with respect to the first or the second signal line by a predetermined degree of about 0-90.degree., and the first pixel electrode and the second pixel electrode are capacitively coupled.

Per claim 8, the prior art of record teaches a thin film transistor array panel comprising: an insulating substrate; first and second gate lines formed on the substrate; a gate insulating layer formed on the first and the second gate lines; a semiconductor layer formed on the gate insulating layer; a data line formed at least on the semiconductor layer and intersecting the gate lines; first and second drain electrodes formed at least on the semiconductor layer and located near the intersection between the first gate line and the data line; third and fourth drain electrodes formed at least on the semiconductor layer and located near the intersection between the second gate line and the data line; a coupling electrode formed on the gate insulating layer; a passivation layer formed on the data line, the first to the fourth drain electrodes, and the coupling electrode and having a plurality of contact holes exposing the first to the fourth drain electrodes and the coupling electrode; a first pixel electrode formed on the passivation layer and connected to the first drain electrode and the coupling electrode; a second pixel electrode formed on the passivation layer and connected to the second drain electrode; a third pixel electrode formed on the passivation layer and connected to the third drain electrode; and a fourth pixel electrode formed on the passivation layer and connected to the fourth drain electrode and partially overlapping the coupling electrode. The prior art of record does not teach nor suggest in combination with the limitations supra at least one of the first and the fourth pixel electrodes has an oblique cutout.

Per claim 9, the prior art of record teaches a liquid crystal display comprising: a first insulating substrate; first and second gate lines formed on the first substrate; a gate insulating

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layer formed on the first and the second gate lines; a semiconductor layer formed on the gate insulating layer; a data line formed at least on the semiconductor layer and intersecting the gate lines; first and second drain electrodes formed at least on the semiconductor layer and located near the intersection between the first gate line and the data line; third and fourth drain electrodes formed at least on the semiconductor layer and located near the intersection between the second gate line and the data line; a coupling electrode formed on the gate insulating layer; a passivation layer formed on the data line, the first to the fourth drain electrodes, and the coupling electrode and having a plurality of contact holes exposing the first to the fourth drain electrodes and the coupling electrode; a first pixel electrode formed on the passivation layer and connected to the first drain electrode and the coupling electrode; a second pixel electrode formed on the passivation layer and connected to the second drain electrode; a third pixel electrode formed on the passivation layer and connected to the third drain electrode; a fourth pixel electrode formed on the passivation layer and connected to the fourth drain electrode and partially overlapping the coupling electrode; a second insulating substrate facing the first insulating substrate; a common electrode formed on the second insulating substrate; a liquid crystal layer interposed between the first and the second insulating substrates. The prior art of record does not teach nor suggest, in combination with the limitations supra, a domain partitioning member formed on at least one of the first and the second insulating substrates and partitioning the liquid crystal layer into a plurality of domains, wherein two long edges of the domains are angled with respect to the first and the second gate lines or the data line substantially by about 45.degree..

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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